Inventor: UENO et al.
Docket No.: 10873.1874USWO
Title: LIGHT-EMITTING ELEMENT
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet I of 27

1/2/

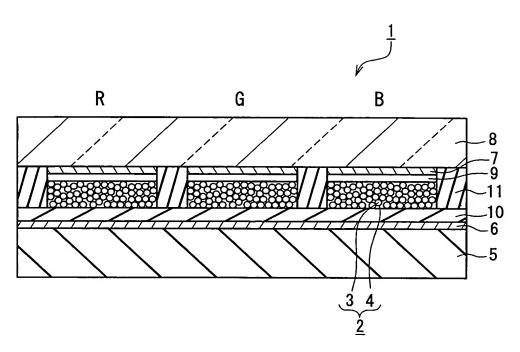


FIG. 1

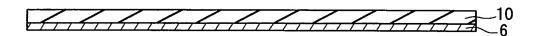


FIG. 2

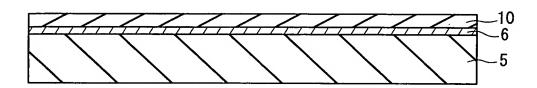


FIG. 3

Inventor: UENO et al.
Docket No.: 10873,1874USWO
Title: LIGHT-EMITTING ELEMENT
Attorney Name: Douglas P. Mueller
Phone No.: 612,455,3804
Sheet 2 of 27

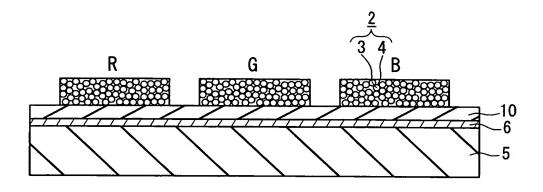
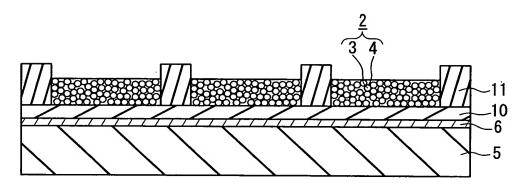


FIG. 4



F1G. 5

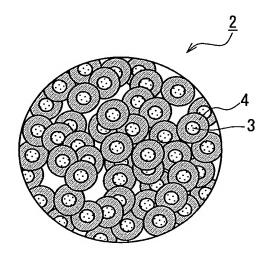


FIG. 6

Inventor: UENO et al.
Docket No.: 10873.1874USWO
Title: LIGHT-EMITTING ELEMENT
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 3 of 27

3/2/

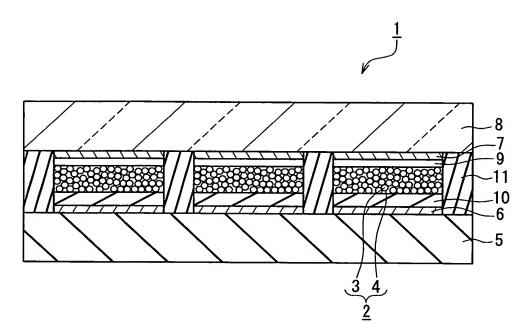


FIG. 7

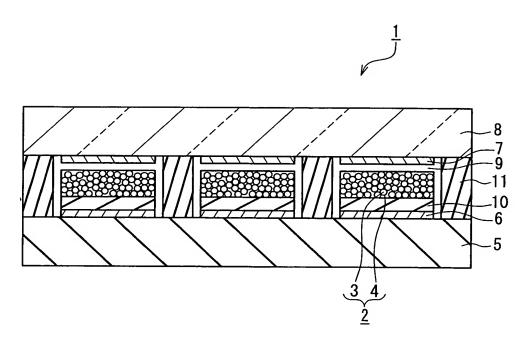


FIG. 8

Inventor: UENO et al.
Docket No.: 10873.1874USWO
Title: LIGHT-EMITTING ELEMENT
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 4 of 27

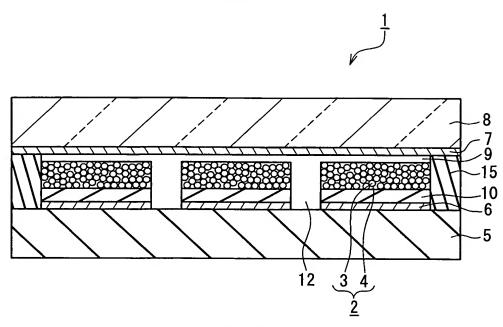


FIG. 9

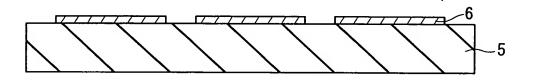


FIG. 10

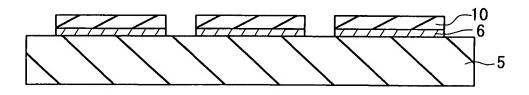


FIG. 11

Inventor: UENO et al.
Docket No.: 10873.1874USWO
Title: LIGHT-EMITTING ELEMENT
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 5 of 27

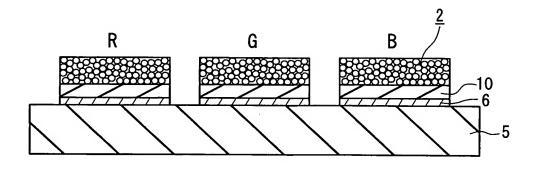


FIG. 12

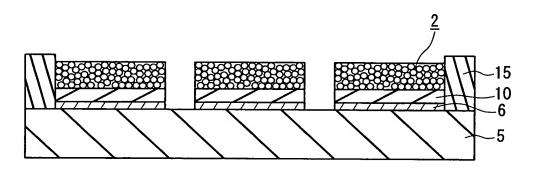


FIG. 13

Inventor: UENO et al.
Docket No.: 10873.1874USWO
Title: LIGHT-EMITTING ELEMENT
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 6 of 27

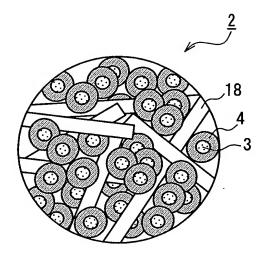


FIG. 14

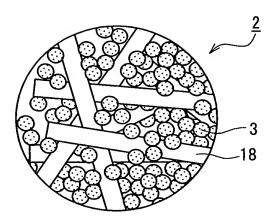


FIG. 15

Inventor: UENO et al.
Docket No.: 10873.1874USWO
Title: LIGHT-EMITTING ELEMENT
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 7 of 27

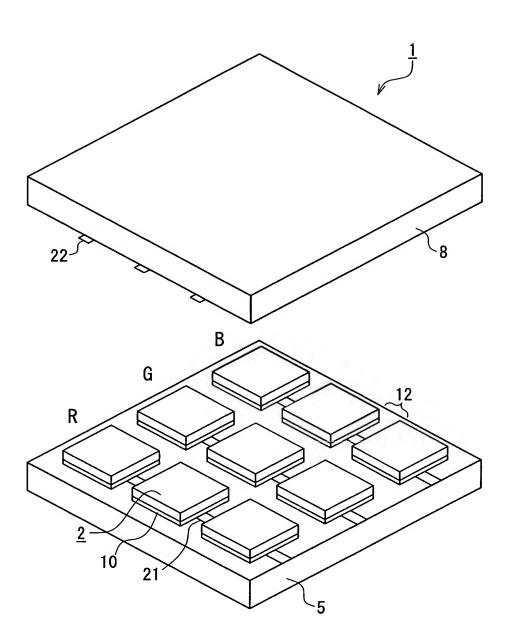


FIG. 16

Inventor: UENO et al.
Docket No.: 10873.1874USWO
Title: LIGHT-EMITTING ELEMENT
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 8 of 27

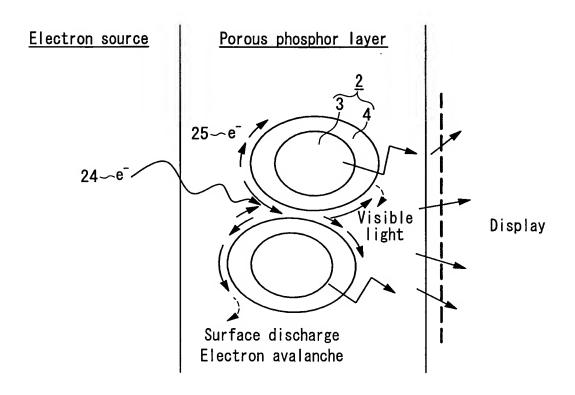


FIG. 17

Inventor: UENO et al.
Docket No.: 10873.1874USWO
Title: LIGHT-EMITTING ELEMENT
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 9 of 27

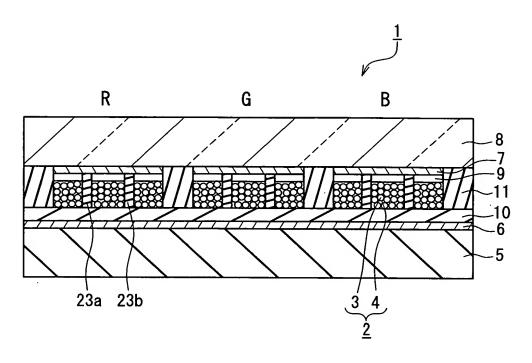
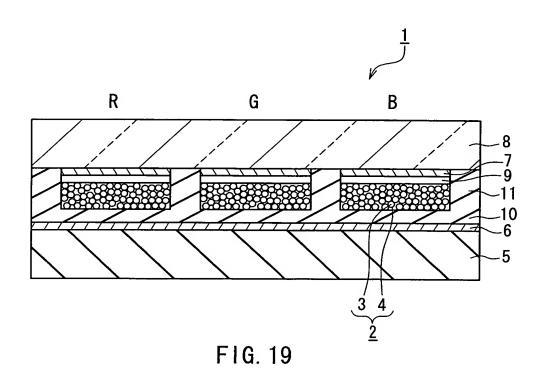


FIG. 18



Inventor: UENO et al.
Docket No.: 10873.1874USWO
Title: LIGHT-EMITTING ELEMENT
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 10 of 27

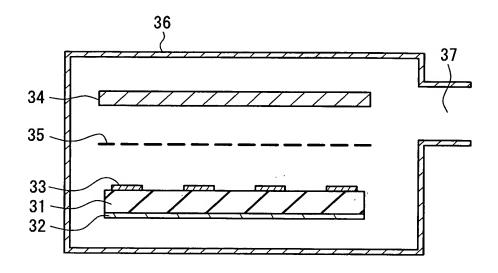


FIG. 20

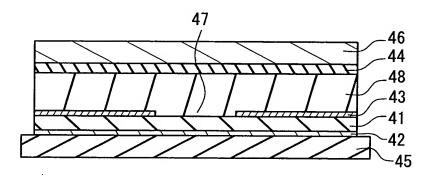


FIG. 21

Inventor: UENO et al.
Docket No.: 10873.1874USWO
Title: LIGHT-EMITTING ELEMENT
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 11 of 27

11/27

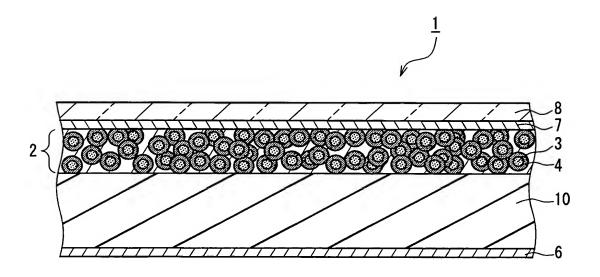


FIG. 22

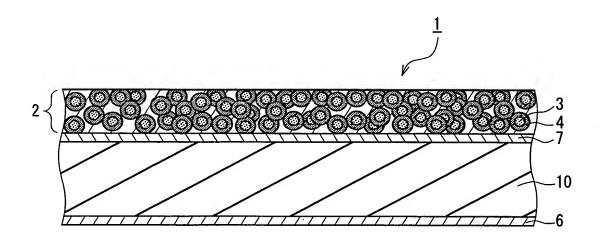


FIG. 23

Inventor: UENO et al.
Docket No.: 10873,1874USWO
Title: LIGHT-EMITTING ELEMENT
Attorney Name: Douglas P. Mueller
Phone No.: 612,455,3804
Sheet 12 of 27

12/27

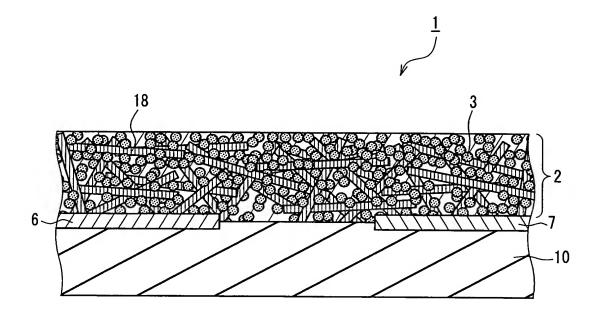


FIG. 24

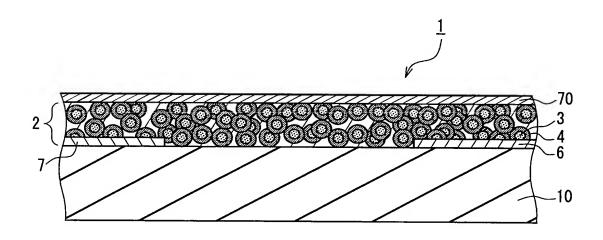


FIG. 25

Inventor: UENO et al.
Docket No.: 10873.1874USWO
Title: LIGHT-EMITTING ELEMENT
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 13 of 27

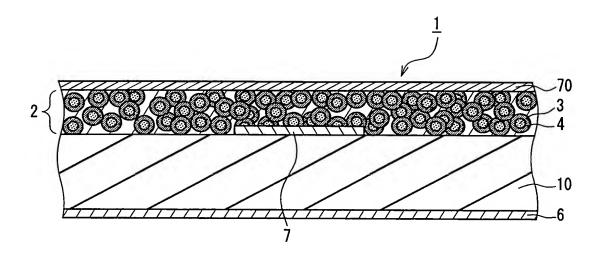


FIG. 26

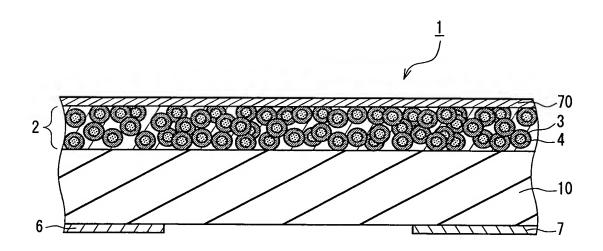


FIG. 27

Inventor: UENO et al.
Docket No.: 10873.1874USWO
Title: LIGHT-EMITTING ELEMENT
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 14 of 27

14/27

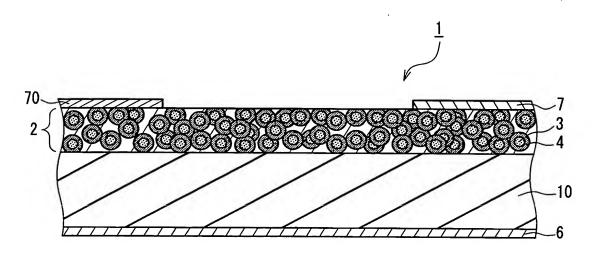


FIG. 28

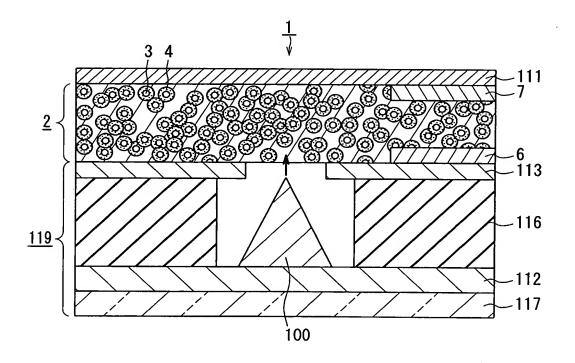
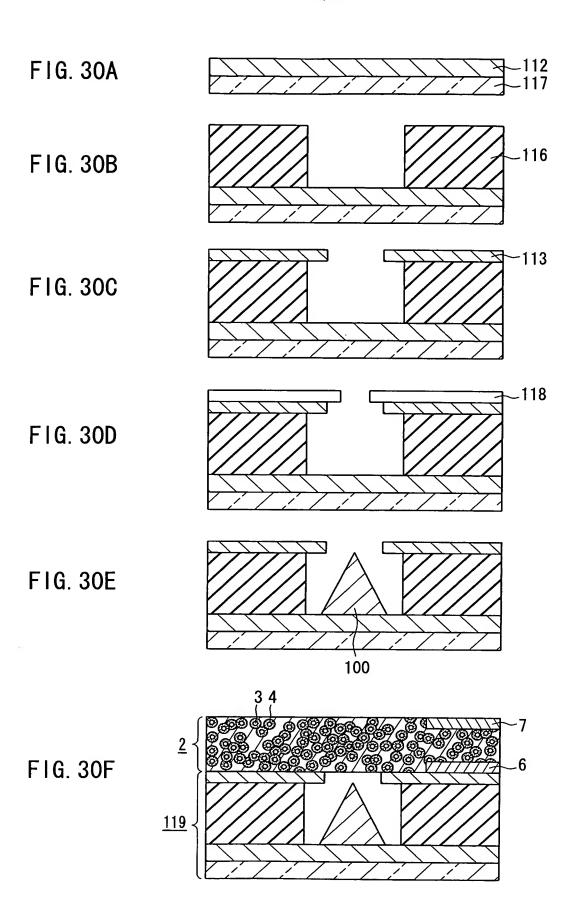


FIG. 29

Inventor: UENO et al.
Docket No.: 10873.1874USWO
Title: LIGHT-EMITTING ELEMENT
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 15 of 27

15/27



Inventor: UENO et al.
Docket No.: 10873,1874USWO
Title: LIGHT-EMITTING ELEMENT
Attorney Name: Douglas P, Mueller
Phone No.: 612,455,3804
Sheet 16 of 27

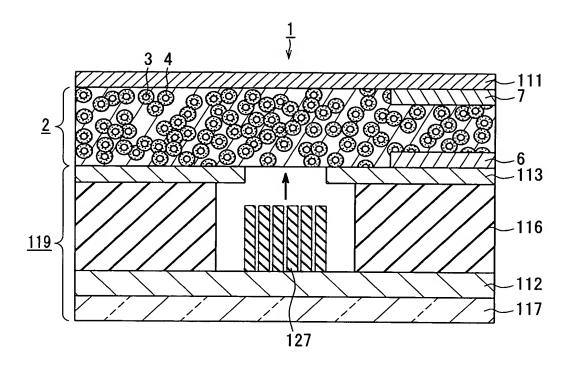
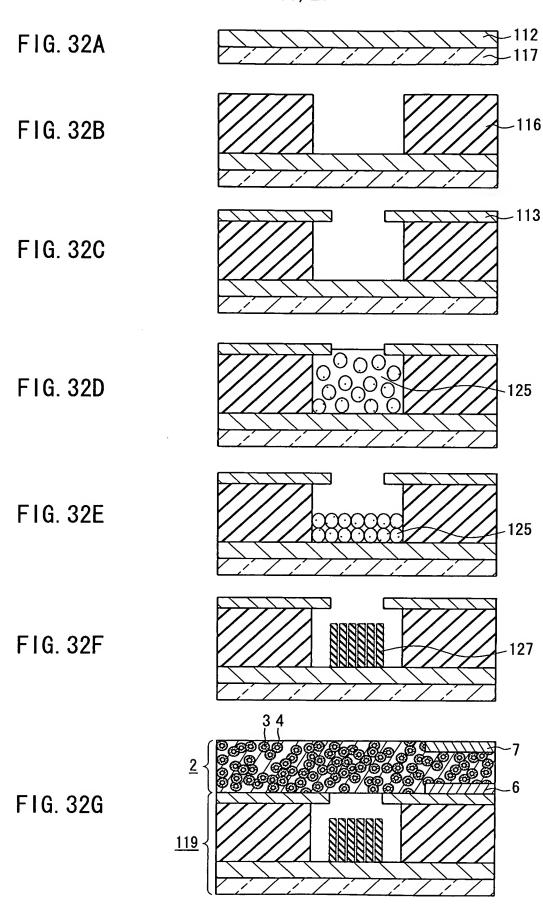


FIG. 31

Inventor: UENO et al.
Docket No.: 10873.1874USWO
Title: LIGHT-EMITTING ELEMENT
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 17 of 27



Inventor: UENO et al.
Docket No.: 10873.1874USWO
Title: LIGHT-EMITTING ELEMENT
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 18 of 27

18/27

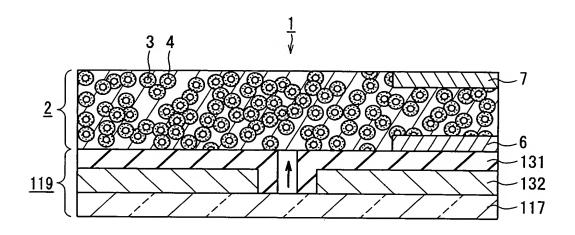
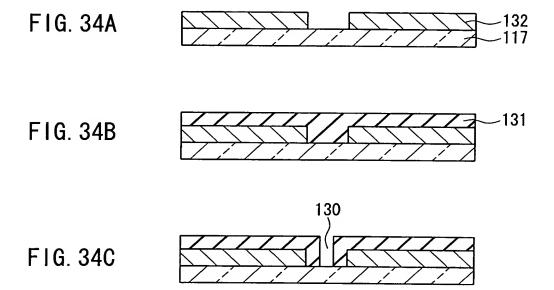


FIG. 33



Inventor: UENO et al.
Docket No.: 10873.1874USWO
Title: LIGHT-EMITTING ELEMENT
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 19 of 27

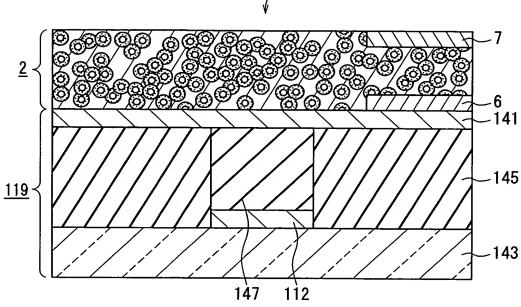
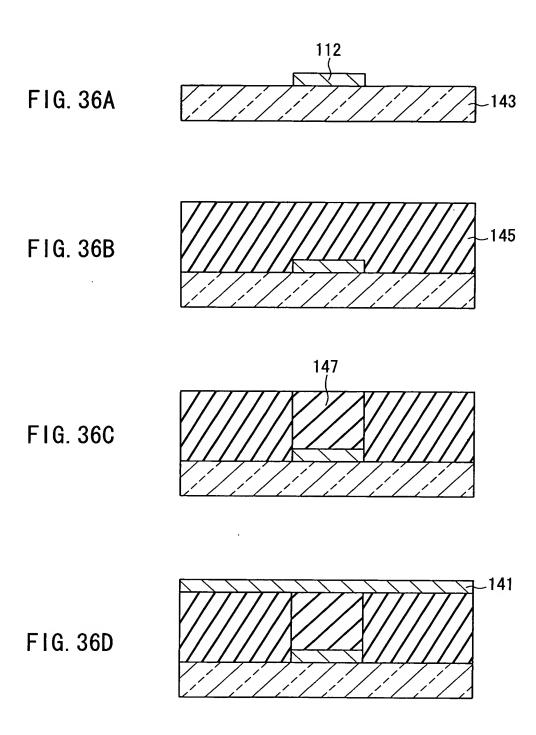


FIG. 35

Inventor: UENO et al.
Docket No.: 10873.1874USWO
Title: LIGHT-EMITTING ELEMENT
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 20 of 27

20/27



Inventor: UENO et al.
Docket No.: 10873,1874USWO
Title: LIGHT-EMITTING ELEMENT
Attorney Name: Douglas P. Mueller
Phone No.: 612.455,3804
Sheet 21 of 27

21/27

FIG. 37A

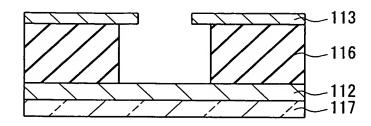


FIG. 37B

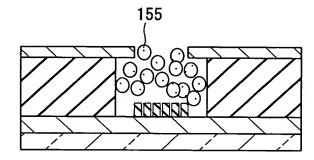
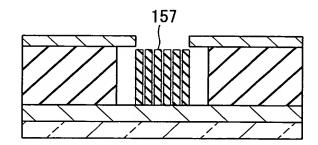


FIG. 37C



Inventor: UENO et al.
Docket No.: 10873.1874USWO
Title: LIGHT-EMITTING ELEMENT
Attorney Name: Douglas P. Mueller
Phone No.: 612.455,3804
Sheet 22 of 27

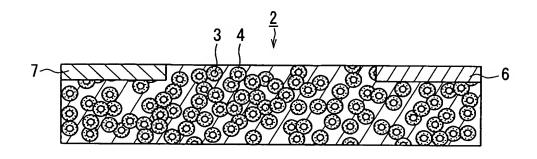


FIG. 38

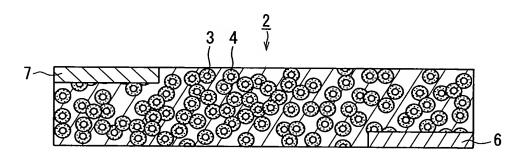


FIG. 39

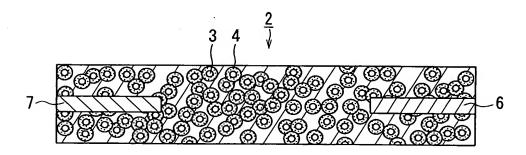


FIG. 40

Inventor: UENO et al.
Docket No.: 10873.1874USWO
Title: LIGHT-EMITTING ELEMENT
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 23 of 27

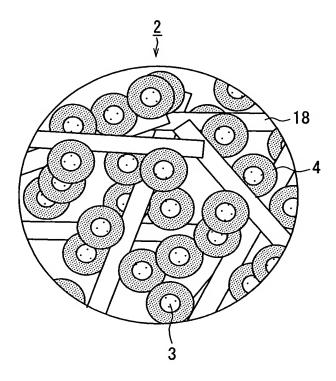


FIG. 41

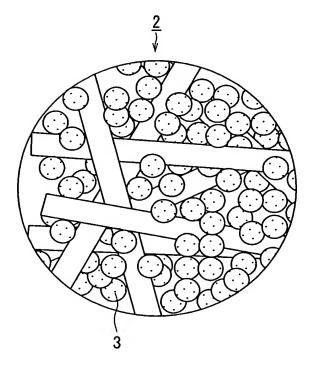


FIG. 42

Inventor: UENO et al.
Docket No.: 10873.1874USWO
Title: LIGHT-EMITTING ELEMENT
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 24 of 27

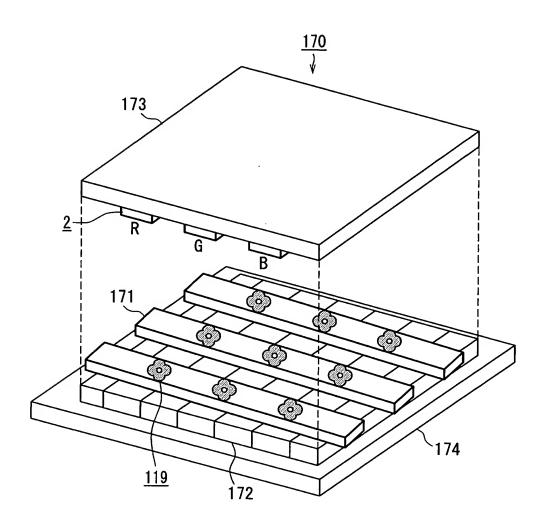


FIG. 43

Inventor: UENO et al.
Docket No.: 10873.1874USWO
Title: LIGHT-EMITTING ELEMENT
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 25 of 27

25/2/

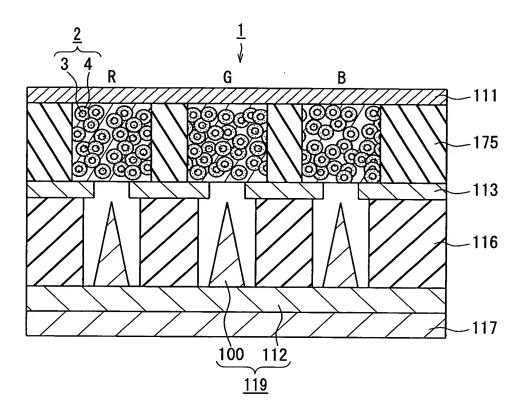


FIG. 44

Inventor: UENO et al.
Docket No.: 10873.1874USWO
Title: LIGHT-EMITTING ELEMENT
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 26 of 27

26/27

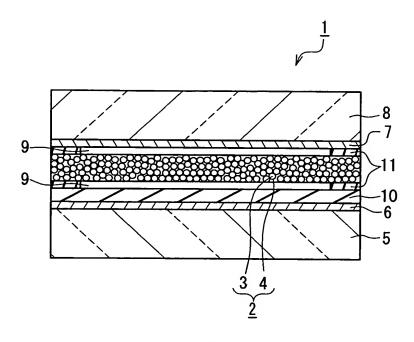


FIG. 45A

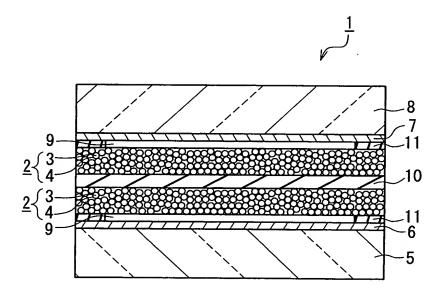


FIG. 45B

Inventor: UENO et al.
Docket No.: 10873,1874USWO
Title: LIGHT-EMITTING ELEMENT
Attorney Name: Douglas P. Mueller
Phone No.: 612.455,3804
Sheet 27 of 27

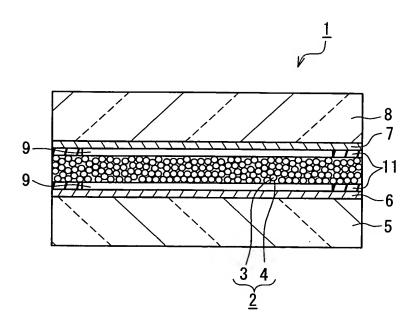


FIG. 45C